



OIPE

## RAW SEQUENCE LISTING

DATE: 05/20/2002

PATENT APPLICATION: US/10/076,674A

TIME: 14:16:22

Input Set : N:\Crf3\05072002\J076674.raw

Output Set: N:\CRF3\05202002\J076674A.raw

1 <110> APPLICANT: Sokoll, Kenneth K.  
 2 <120> TITLE OF INVENTION: Stabilized Synthetic Immunogen Delivery System  
 3 <130> FILE REFERENCE: Immunogen Delivery System  
 4 <140> CURRENT APPLICATION NUMBER: US/10/076,674A  
 5 <141> CURRENT FILING DATE: 2002-04-23  
 6 <160> NUMBER OF SEQ ID NOS: 11  
 7 <170> SOFTWARE: PatentIn version 3.1  
 9 <210> SEQ ID NO: 1  
 10 <211> LENGTH: 32  
 11 <212> TYPE: DNA  
 12 <213> ORGANISM: Artificial Sequence  
 13 <220> FEATURE:  
 14 <223> OTHER INFORMATION: synthetic oligonucleotide  
 15 <400> SEQUENCE: 1  
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 18 <210> SEQ ID NO: 2  
 19 <211> LENGTH: 24  
 20 <212> TYPE: DNA  
 21 <213> ORGANISM: Artificial Sequence  
 22 <220> FEATURE:  
 23 <223> OTHER INFORMATION: synthetic oligonucleotide  
 24 <220> FEATURE:  
 25 <221> NAME/KEY: misc\_feature  
 26 <222> LOCATION: (1)..(1)  
 27 <223> OTHER INFORMATION: n indicates phosphorothioate group  
 28 <400> SEQUENCE: 2  
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 31 <210> SEQ ID NO: 3  
 32 <211> LENGTH: 24  
 33 <212> TYPE: DNA  
 34 <213> ORGANISM: Artificial Sequence  
 35 <220> FEATURE:  
 36 <223> OTHER INFORMATION: synthetic oligonucleotide  
 37 <400> SEQUENCE: 3  
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 40 <210> SEQ ID NO: 4  
 41 <211> LENGTH: 50  
 42 <212> TYPE: PRT  
 43 <213> ORGANISM: Human  
 44 <220> FEATURE:  
 45 <221> NAME/KEY: misc\_feature  
 46 <222> LOCATION: (20)..(20)  
 47 <223> OTHER INFORMATION: Xaa indicates epsilon-Lys

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48 <400> SEQUENCE: 4
49     Ile Ser Ile Thr Glu Ile Lys Gly Val Ile Val His Arg Ile Glu Thr
50     1             5             10             15
W--> 51     Ile Leu Phe Xaa Cys Asn Gln Gly Ser Phe Leu Thr Lys Gly Pro Ser
52             20             25             30
53     Lys Leu Asn Asp Arg Ala Asp Ser Arg Arg Ser Leu Trp Asp Gln Gly
54             35             40             45
55     Asn Cys
56     50
58 <210> SEQ ID NO: 5
59 <211> LENGTH: 50
60 <212> TYPE: PRT
61 <213> ORGANISM: Human
62 <220> FEATURE:
63 <221> NAME/KEY: misc_feature
64 <222> LOCATION: (20)..(20)
65 <223> OTHER INFORMATION: Xaa indicates epsilon-Lys
66 <400> SEQUENCE: 5
67     Lys Lys Lys Thr Asp Arg Val Ile Glu Val Leu Gln Arg Ala Gly Arg
68     1             5             10             15
W--> 69     Ala Ile Leu Xaa Cys Asn Gln Gly Ser Phe Leu Thr Lys Gly Pro Ser
70             20             25             30
71     Lys Leu Asn Asp Arg Ala Asp Ser Arg Arg Ser Leu Trp Asp Gln Gly
72             35             40             45
73     Asn Cys
74     50
76 <210> SEQ ID NO: 6
77 <211> LENGTH: 31
78 <212> TYPE: PRT
79 <213> ORGANISM: Human
80 <220> FEATURE:
81 <221> NAME/KEY: misc_feature
82 <222> LOCATION: (20)..(20)
83 <223> OTHER INFORMATION: Xaa indicates epsilon-Lys
84 <400> SEQUENCE: 6
85     Ile Ser Ile Thr Glu Ile Lys Gly Val Ile Val His Arg Ile Glu Thr
86     1             5             10             15
W--> 87     Ile Leu Phe Xaa Cys His Ala Ser Ile Tyr Asp Phe Gly Ser Cys
88             20             25             30
90 <210> SEQ ID NO: 7
91 <211> LENGTH: 27
92 <212> TYPE: PRT
93 <213> ORGANISM: Human
94 <400> SEQUENCE: 7
95     Lys Lys Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
96     1             5             10             15
97     Leu Glu His Trp Ser Tyr Gly Leu Arg Pro Gly
98             20             25
100 <210> SEQ ID NO: 8

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Input Set : N:\Crif3\05072002\J076674.raw

Output Set: N:\CRF3\05202002\J076674A.raw

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101 <211> LENGTH: 45
102 <212> TYPE: PRT
103 <213> ORGANISM: Human
104 <400> SEQUENCE: 8
105   Thr Ala Lys Ser Lys Lys Phe Pro Ser Tyr Thr Ala Thr Tyr Gln Phe
106       1                      5                      10                      15
107   Gly Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu
108               20                      25                      30
109   Glu Gly Gly Glu His Trp Ser Tyr Gly Leu Arg Pro Gly
110               35                      40                      45
112 <210> SEQ ID NO: 9
113 <211> LENGTH: 45
114 <212> TYPE: PRT
115 <213> ORGANISM: Human
116 <400> SEQUENCE: 9
117   Thr Ala Lys Ser Lys Lys Phe Pro Ser Tyr Thr Ala Thr Tyr Gln Phe
118       1                      5                      10                      15
119   Gly Gly Leu Ser Glu Ile Lys Gly Val Ile Val His Arg Leu Glu Gly
120               20                      25                      30
121   Val Gly Gly Glu His Trp Ser Tyr Gly Leu Arg Pro Gly
122               35                      40                      45
124 <210> SEQ ID NO: 10
125 <211> LENGTH: 44
126 <212> TYPE: PRT
127 <213> ORGANISM: Human
128 <220> FEATURE:
129 <221> NAME/KEY: misc_feature
130 <222> LOCATION: (19)..(19)
131 <223> OTHER INFORMATION: Xaa indicates epsilon-Lys
132 <400> SEQUENCE: 10
133   Lys Lys Lys Ile Ile Thr Ile Thr Arg Ile Ile Thr Ile Ile Thr Thr
134       1                      5                      10                      15
W--> 135   Ile Asp Xaa Cys Gly Glu Thr Tyr Gln Ser Arg Val Thr His Pro His
136               20                      25                      30
137   Leu Pro Arg Ala Leu Met Arg Ser Thr Thr Lys Cys
138               35                      40
140 <210> SEQ ID NO: 11
141 <211> LENGTH: 45
142 <212> TYPE: PRT
143 <213> ORGANISM: Human
144 <220> FEATURE:
145 <221> NAME/KEY: misc_feature
146 <222> LOCATION: (20)..(20)
147 <223> OTHER INFORMATION: Xaa indicates epsilon-Lys
148 <400> SEQUENCE: 11
149   Ile Ser Ile Thr Glu Ile Lys Gly Val Ile Val His Arg Ile Glu Thr
150       1                      5                      10                      15
W--> 151   Ile Leu Phe Xaa Cys Gly Glu Thr Tyr Gln Ser Arg Val Thr His Pro
152               20                      25                      30

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Input Set : N:\Crf3\05072002\J076674.raw

Output Set: N:\CRF3\05202002\J076674A.raw

153	His	Leu	Pro	Arg	Ala	Leu	Met	Arg	Ser	Thr	Thr	Lys	Cys
154			35					40					45

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 05/20/2002  
PATENT APPLICATION: US/10/076,674A      TIME: 14:16:23

Input Set : N:\Crf3\05072002\J076674.raw  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; Xaa Pos. 20  
Seq#:5; Xaa Pos. 20  
Seq#:6; Xaa Pos. 20  
Seq#:10; Xaa Pos. 19  
Seq#:11; Xaa Pos. 20

## VERIFICATION SUMMARY

DATE: 05/20/2002

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Input Set : N:\Crf3\05072002\J076674.raw

Output Set: N:\CRF3\05202002\J076674A.raw

L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:16  
L:69 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:16  
L:87 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:16  
L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:16  
L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:16

## STATISTICS SUMMARY

DATE: 05/20/2002

PATENT APPLICATION: US/10/076,674A

TIME: 14:16:23

Input Set : N:\Crf3\05072002\J076674.raw

Output Set: N:\CRF3\05202002\J076674A.raw

Application Serial Number: US/10/076,674A

Alpha or Numeric: Numeric

Application Class:

Application File Date: 04-23-2002

Art Unit: OIPE

Software Application: PatentIN3.1

Total Number of Sequences: 11

Total Nucleotides: 80

Total Amino Acids: 337

Number of Errors: 0

Number of Warnings: 5

Number of Corrections: 0

## MESSAGE SUMMARY

341 W: 5 ((46) "n" or "Xaa" used)